Pre-Installation:

Before connecting the AB-114, confirm the following:

- The power supply is not connected to the AB-114.
- The status power supply is not connected.
- The lengths of the CAT-5 wires connecting the AB-114 and AB-404 modules do not exceed 1000 ft. (For longer runs over 1000 ft., use multiple AB-404 modules in a cascaded system.

Once all connections have been checked, the power supplies may now be connected to the modules.

CAT-5 Connectivity:

Use a CAT-5 minimum to connect the AB-202 Single Source Distribution Module's RJ-45 outputs to the RJ-45 wallplate (optional). You may also connect the AB-202 directly to the AB-404 Distribution Module. The AB-404 then snaps-in conveniently into any Channel Vision Central structured wiring panels of your choice (C-0112, C-0119, C-0138, or C-0150).

Punch down the CAT-5 pairs into the AB-404's 110 connector inputs using a 110 punch down tool (e.g. model J-110-Tool). Using the same tool, punch down the four 110 connector outputs to the 110 connectors on the back of each AB-114 being installed. The connectors are color-coded for your convenience. (See diagram on the other side.)

Note: The AB-404 is expandable by connecting its 110 connector output to another AB-404 module (see diagram). However, each module must be powered individually. The AB-404 can be placed at any

Volume Trim Potentiometer:

Two trim potentiometers ("trim pots") are located on the back of the AB-114. Using a small Phillips-head screwdriver, these trim pots may be manipulated to set the maximum volume level desired and to adjust the left /right balance.

Speaker Connections:

The output terminals of the AB-114 accepts both 16/2 and 16/4 speaker wires.

Status:

The AB-202 is factory shipped with the status port automatically set to power down the AB-114 when using an auto sensed source. This will preserve the life of the AB-114 volume control as well as conserve energy. A 12-volt power supply (e.g. model 5018) can be plugged into the status port of the AB-202 *only* if the source is **not auto sensed**. The AB-202 *does not* need to be

Operation:

The AB-114 can be powered on/off and volume can be controlled using the buttons on the unit.

If IR emitters have been installed as a part of your A-BUS system, you may operate sources with their own remote control (or a universal remote) by aiming it at the IR window on the AB-114.

The AB-114's LED display will flash red to indicate it has received infrared signals from the remote control.

Local Source:

If you need to connect a local audio source to the A-BUS system, use the AB-301 to connect the source to the closest AB-114 installed.

Mounting:

Check all wire connections and test the system performance before installing the AB-114 into a standard UL/CSA approved electrical J-Box.

Remote:

An A-BUS remote may be used to adjust volume and switch sources by aiming it at an AB-114 keypad.

WARNING: Before any installation, please read the instructions that accompany each component in your system. If you are unsure about any of the procedures, please consult a professional installer.

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A-BUS System Components:
AB-114, AB-202, AB-301, AB-404
ABT2454, and A-BUS Remote

by CHANNEL VISION™

A-BUS™

Limited Warranty

Channel Vision Technology will repair or replace any defect in material or workmanship which occur during normal use of this product with new or rebuilt parts, free of charge in the USA, for two years from the date of original purchase. This is a no hassle warranty with no mail in warranty card needed. This warranty does not cover damages in shipment, failures caused by other products not supplied by Channel Vision Technology, or failures due to accident, misuse, abuse, or alteration of the equipment. This warranty is extend only to the original purchaser, and a purchase receipt, invoice, or other proof of original purchase date will be required before warranty repairs are provided. Mail in service can be obtained during the warranty period by calling (800) 840-0288 toll free. A Return Authorization number must be obtained in advance and be marked on the outside of the shipping carton. This warranty gives you specific legal rights, and you may have other rights (which vary from state to state). If a problem with this product develops during, or after, the warranty period, please contact Channel Vision, your dealer, or any factory-authorized service center.

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A-BUS by CHANNEL VISION:

System Overview

Featuring A-BUS technology, Channel Vision's newest multi-room audio distribution system offers simple CAT-5 (8 conductor) wiring, IR routing, and remote control capability. The A-BUS system consists of four modular components:

AB-114 *Amplified Keypad*
- Provides audio amplification to in-room speakers
- Features IR receiver for control of external equipment, backlit keypad and visual LED indicators for IR, status, and volume level confirmation, volume potentiometers for setting maximum volume level and adjusting left/right balance
- Single gang box Decora® faceplate installation
- Operable via remote control or local push button
- Input Impedance: 28k Ohm minimum line input
- Power Requirements: +24VDC, 750mA
- Status Input Reqs: +12VDC, 20mA
- CAT-5 Connection: 110 punchdown
- In-Wall Dimensions: 1.75"W x 2.875"H x 1.75"D
- Weight: 6 ounces

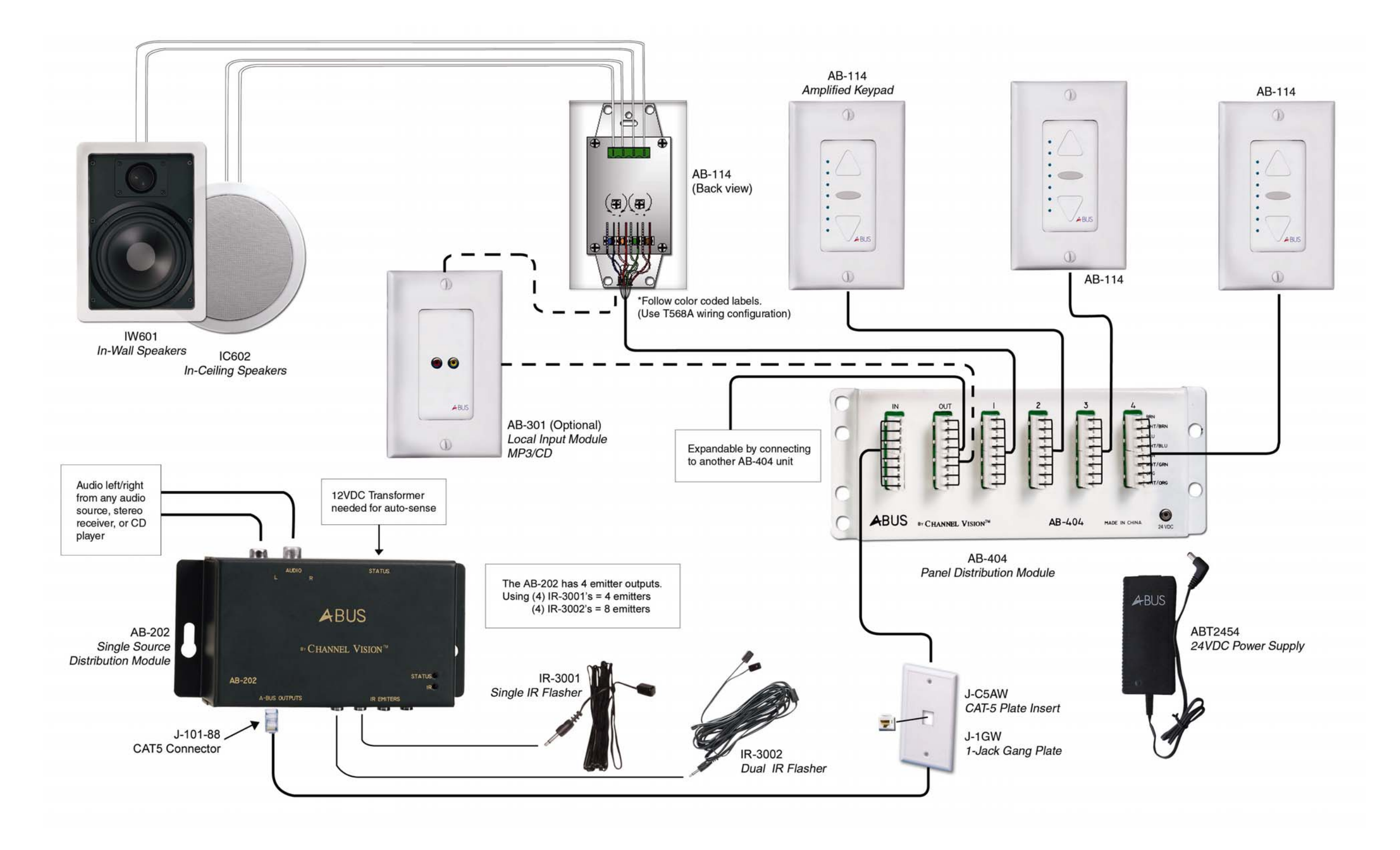
AB-202 *Single Source Distribution Module*
- Provides single CAT-5 output audio distribution
- Features four IR emitter outputs and routing for control of external equipment
- Status Input Reqs: +12VDC
- Case Size: 5.2"W x 2.4"H x 1.18"D

AB-301 *Local Input Module (Optional)*
- Provides input of an audio source local to the zone

AB-404 *Panel Distribution Module*
- Distributes power, status, and IR to up to four zones
- Features an output connector for system expansion & simple 110 punch down connection for easy install
- Power Requirements: +24VDC, 2Amin – 3.2A max

Other components:

ABT2454 *24VDC Power Supply*
- Provides power (3.2A) for the A-BUS system
-Features mini-din plug for easy connection
- UL, CE, and TUV approved


IW601
In-Wall Speakers
IC602
In-Ceiling Speakers
AB-114
(Back view)
AB-114
Amplified Keypad
AB-114
AB-114
*Follow color coded labels.
(Use T568A wiring configuration)
AB-301 (Optional)
Local Input Module
MP3/CD
Expandable by connecting
to another AB-404 unit
IN
OUT
1
2
3
4
ABUS
BY CHANNEL VISION™
AB-404
MADE IN CHINA
24 VDC
AB-404
Panel Distribution Module
Audio left/right
from any audio
source, stereo
receiver, or CD
player
12VDC Transformer
needed for auto-sense
AUDIO
L
R
STATUS
ABUS
BY CHANNEL VISION™
AB-202
STATUS
IR
A-BUS OUTPUTS
IR EMITERS
AB-202
Single Source
Distribution Module
The AB-202 has 4 emitter outputs.
Using (4) IR-3001's = 4 emitters
(4) IR-3002's = 8 emitters
IR-3001
Single IR Flasher
IR-3002
Dual IR Flasher
J-101-88
CAT5 Connector
J-C5AW
CAT-5 Plate Insert
J-1GW
1-Jack Gang Plate
ABUS
ABT2454
24VDC Power Supply